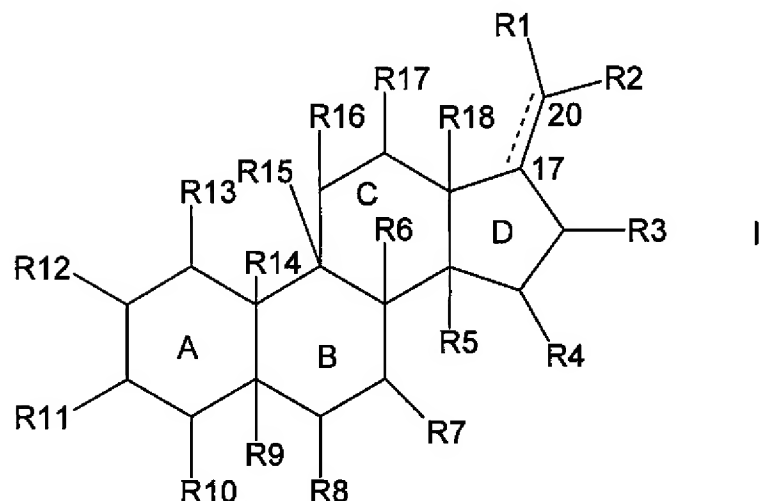


# AMENDMENTS TO THE CLAIMS

1. (Original) A compound according to formula I



wherein the fused rings A, B, C and D are independently saturated or fully or partially unsaturated;

the bond between C-17 and C-20 is depicted with a full and a dotted line to indicate that said bond can be a single or a double bond;

wherein R1 is hydrogen, halogen, a lipophilic group,  $-(Z)_n-(NR-Z)_p-N(R)_2$  or

$C(O)-(Z)_n-(NR-Z)_p-N(R)_2$ , wherein n is 0 or 1 and p is an integer from 1 and 5;

each Z independently represents straight or branched hydrocarbon diradical, optionally

substituted with  $C_{1-6}$  alkyl,  $C_{1-6}$  alkenyl,  $C_{1-6}$  alkynyl, hydroxy, alkoxy, amino,

$C_{1-6}$  aminoalkoxy,  $C_{1-6}$  aminoalkyl,  $C_{1-6}$  aminoalkylaminocarbonyl,

$C_{1-6}$  alkyl/ $C_{3-8}$  cycloalkyl or  $C_{1-6}$  alkylheteroaryl;

each R independently represents hydrogen or  $C_{1-6}$  alkyl,  $C_{1-6}$  aminoalkyl,

C<sub>1-6</sub>aminoalkoxy or C<sub>1-6</sub>aminoalkylaminocarbonyl, all of which are optionally substituted with alkyl or C<sub>1-6</sub>aminoalkyl;

provided that at least one Z is substituted with C<sub>1-6</sub> alkyl, C<sub>1-6</sub>alkenyl, C<sub>1-6</sub>alkynyl, hydroxy, alkoxy, C<sub>1-6</sub>aminoalkoxy, C<sub>1-6</sub>aminoalkyl, C<sub>1-6</sub>aminoalkylaminocarbonyl,

C<sub>1-6</sub>alkylC<sub>3-8</sub>cycloalkyl or C<sub>1-6</sub>alkylheteroaryl, or at least one R is different from hydrogen;

R<sub>2</sub> represents halogen, C<sub>1-4</sub>alkyl, optionally substituted with COOH; C<sub>1-4</sub>alkoxy, -COOH,

-(Z)<sub>n</sub>-(NR-Z)<sub>p</sub>-N(R)<sub>2</sub> or C(O)-(Z)<sub>n</sub>-(NR-Z)<sub>p</sub>-N(R)<sub>2</sub>;

R<sub>3</sub> represents hydrogen halogen or O-R<sub>19</sub>, wherein R<sub>19</sub> represents hydrogen, -SO<sub>3</sub>,

C<sub>1-6</sub>alkyl, C<sub>1-6</sub>acyl or -(Z)<sub>n</sub>-(NR-Z)<sub>p</sub>-N(R)<sub>2</sub>;

each of R<sub>4</sub>, R<sub>7</sub>, R<sub>8</sub>, R<sub>11</sub>, R<sub>12</sub>, R<sub>13</sub>, R<sub>16</sub> and R<sub>17</sub> independently represent hydrogen, halogen, hydroxy, -OSO<sub>3</sub>, -O-acyl, -(Z)<sub>n</sub>-(NR-Z)<sub>p</sub>-N(R)<sub>2</sub> or

C(O)-(Z)<sub>n</sub>-(NR-Z)<sub>p</sub>-N(R)<sub>2</sub>;

R<sub>10</sub> represents hydrogen, methyl, halogen, hydroxy, -OSO<sub>3</sub>, -O-acyl, -(Z)<sub>n</sub>-(NR-Z)<sub>p</sub>-N(R)<sub>2</sub> or

C(O)-(Z)<sub>n</sub>-(NR-Z)<sub>p</sub>-N(R)<sub>2</sub>;

each of R<sub>5</sub>, R<sub>6</sub>, R<sub>9</sub>, R<sub>14</sub>, R<sub>15</sub> and R<sub>18</sub> independently represent hydrogen or methyl or are each independently absent when one of the fused rings, A, B, C and D are unsaturated so as to complete the valency of the carbon atom at that site;

provided that at least one, and not more than three of R<sub>1</sub>, R<sub>2</sub>, R<sub>4</sub>, R<sub>7</sub>, R<sub>8</sub>, R<sub>10</sub>, R<sub>11</sub>, R<sub>12</sub>, R<sub>13</sub>,

R<sub>16</sub> and R<sub>17</sub> is -(Z)<sub>n</sub>-(NR-Z)<sub>p</sub>-N(R)<sub>2</sub> or

C(O)-(Z)<sub>n</sub>-(NR-Z)<sub>p</sub>-N(R)<sub>2</sub>;

provided that the compound is not

3β-hydroxy-6β-(2-dimethylaminoethyl)amino-5α-stigmastane,

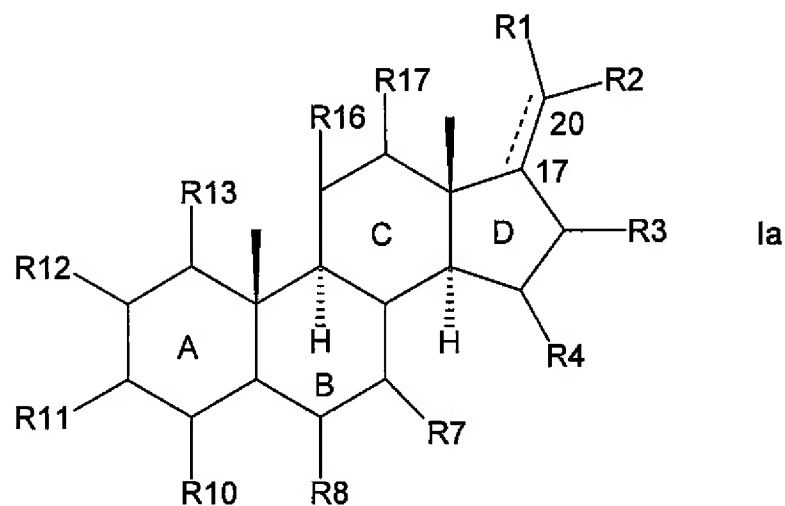
3 $\beta$ -hydroxy-6 $\beta$ -(2-diethylaminoethyl)amino-5 $\alpha$ -stigmastane,  
3 $\beta$ -hydroxy-6 $\beta$ -(3-dimethylaminopropyl)amino-5 $\alpha$ -stigmastane,  
3 $\beta$ -hydroxy-6 $\alpha$ -(2-diethylaminoethyl)amino-5 $\alpha$ -stigmastane,  
3 $\beta$ -hydroxy-6 $\beta$ -(2-diethylaminoethyl)amino-5 $\alpha$ -cholestane,  
3 $\beta$ -hydroxy-6 $\beta$ -(2-diethylaminoethyl)amino-5 $\alpha$ -cholestane,  
3 $\beta$ -hydroxy-6 $\beta$ -(3-dimethylaminopropyl)amino-5 $\alpha$ -cholestane,  
3 $\beta$ -hydroxy-6 $\alpha$ -(2-diethylaminoethyl)amino-5 $\alpha$ -cholestane,  
20-( $\gamma$ -diethylaminopropyl)-amino-5 $\alpha$ -pregnan-3 $\beta$ -ol,  
20-( $\beta$ -diethylaminoethyl)-amino-5 $\alpha$ -pregnan-3 $\beta$ -ol,  
20-( $\beta$ -dimethylaminoethyl)-amino-5 $\alpha$ -pregnan-3 $\beta$ -ol,  
20-( $\beta$ -dimethylaminoethyl)-aminopregn-5-en-3 $\beta$ -ol,  
20-( $\beta$ -diethylaminoethyl)-aminopregn-5-en-3 $\beta$ -ol,  
N( $\beta$ -diethylaminoethyl)-3 $\alpha$ ,7 $\alpha$ ,12 $\alpha$ -trihydroxy-5 $\beta$ -cholan-24-amide,  
N( $\beta$ -diethylaminoethyl)-3 $\alpha$ ,12 $\alpha$ -dihydroxy-5 $\beta$ -cholan-24-amide,  
N( $\beta$ -diethylaminoethyl)-3 $\alpha$ ,7 $\alpha$ ,12 $\alpha$ -trihydroxy-5 $\beta$ -cholan-24-amine, or  
N( $\beta$ -diethylaminoethyl)-3 $\alpha$ ,12 $\alpha$ -dihydroxy-5 $\beta$ -cholan-24-amine, and  
and pharmaceutically acceptable salts or esters thereof.

2. (Original) A compound according to claim 1, wherein R<sub>2</sub> represents  $-(Z)_n-(NR-Z)_p-$   
N(R)<sub>2</sub> or C(O)-(Z)<sub>n</sub>-(NR-Z)<sub>p</sub>-N(R)<sub>2</sub>.

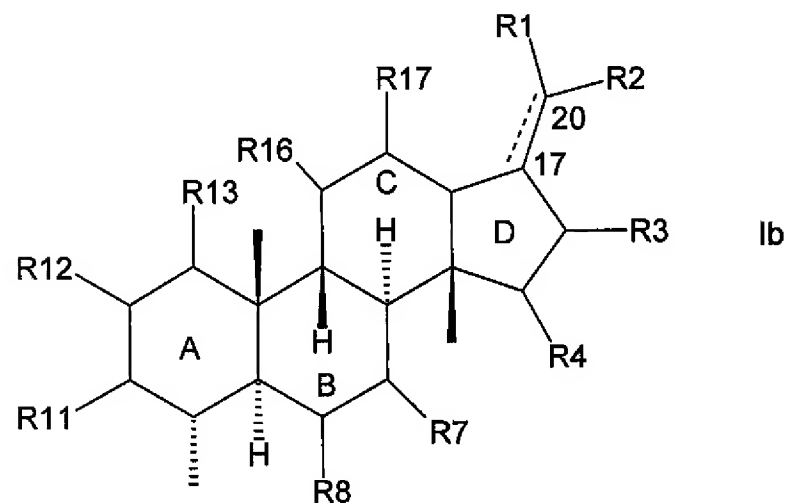
3. (Original) A compound according to claim 1, wherein R7, R11 and/or R16 represents –  
 $(Z)_n-(NR-Z)_p-N(R)_2$  or  $C(O)-(Z)_n-(NR-Z)_p-N(R)_2$ .
4. (Original) A compound according to claim 1, wherein R1 represents a lipophilic group.
5. (Original) A compound according to claim 1, wherein R1 is selected from the group consisting of straight or branched, saturated or unsaturated  $C_{1-10}$ alkyl, aryl,  $C_{3-8}$ cycloalkyl, aralkyl with 1-10 carbon atoms in the alkyl moiety,  $C_{1-10}$ alkylaryl,  $C_{1-10}$ alkyl- $C_{3-8}$ cycloalkyl,  $C_{1-10}$ alkoxy and heteroaryl.
6. (Currently Amended) A compound according to ~~any of claims 1-5~~ claim 1, wherein R19 represents  
 $C_{1-6}$ alkyl or  $C_{1-6}$ acyl.
7. (Previously Presented) A compound according to claim 1, wherein R7, R11 and/or R16 represents OH
8. (Currently Amended) A compound according to ~~any of claims 1-5~~ claim 1, wherein R11 represents  
 $-OSO_3$ .

9. (Currently Amended) A compound according to ~~any of claims 1-5~~ claim 1, wherein R11 represents -O-acyl.

10. (Currently Amended) A compound according to claim 1 which has the general formula Ia



or which has the general formula Ib



11. (Cancelled)

12. (Currently Amended) A compound according to claim 10 or 11, wherein R2 represents –  
(Z)<sub>n</sub>-(NR-Z)<sub>p</sub>-N(R)<sub>2</sub> or C(O)-(Z)<sub>n</sub>-(NR-Z)<sub>p</sub>-N(R)<sub>2</sub>.

13. (Original) A compound according to claim 12, wherein R7 and R11 are both hydroxy.

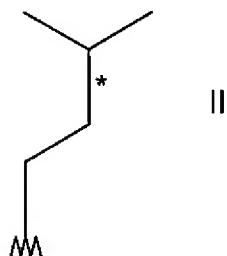
14. (Original) A compound according to claim 12, wherein R11 and R16 are both hydroxy.

15. (Original) A compound according to claim 12, wherein R3 is –OR19, wherein R19 is C<sub>1</sub>-<sub>6</sub>alkyl or C<sub>1</sub>-<sub>6</sub>acyl.

16. (Cancelled)

17. (Original) A compound according to claim 12, wherein R1 is a straight or branched, saturated or unsaturated C<sub>1-10</sub>hydrocarbon.

18. (Original) A compound according to claim 12, wherein R1 is a moiety of formula II



wherein the carbon-carbon bond denoted “\*” is a single or double bond.

19. (Currently Amended) A compound according to ~~claims 10 or 11~~ claim 10, wherein R11 represents

$-(Z)_n-(NR-Z)_p-N(R)_2$  or  $C(O)-(Z)_n-(NR-Z)_p-N(R)_2$ .

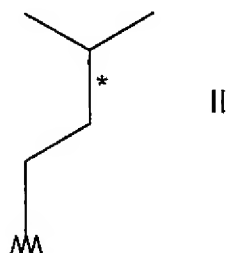
20. (Original) A compound according to claim 19, wherein R2 is C<sub>1-4</sub>alkyl, optionally substituted with COOH, C<sub>1-4</sub>alkoxy or COOH.

21. (Original) A compound according to claim 19, wherein R3 is O-R19, wherein R19 represents C<sub>1-6</sub>alkyl or C<sub>1-6</sub>acyl.

22. (Cancelled)

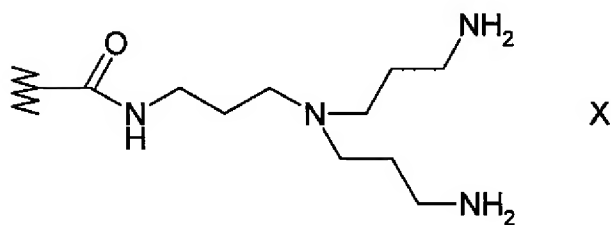
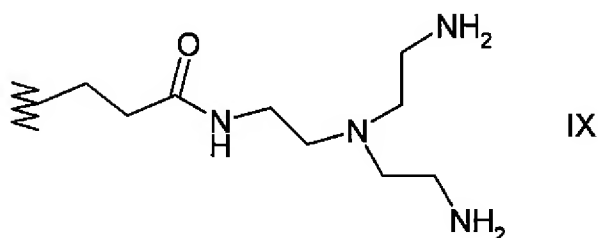
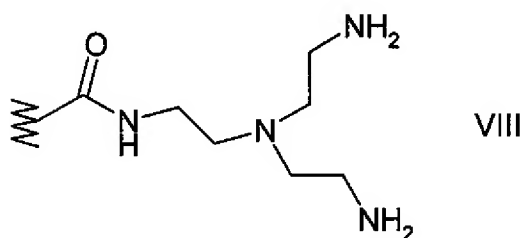
23. (Original) A compound according to claim 19, wherein R1 is a straight or branched, saturated or unsaturated C<sub>1-10</sub>hydrocarbon.

24. (Original) A compound according to claim 19, wherein R1 is a moiety of formula II

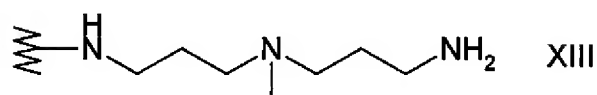
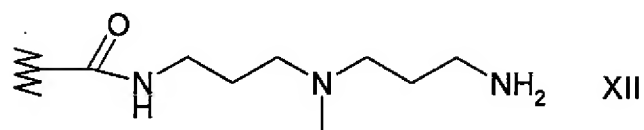
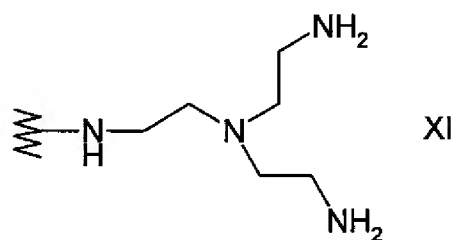


wherein the carbon-carbon bond denoted "\*" is a single or double bond.

25. (Currently Amended) A compound according to ~~any one of claims 1, 10 or 11~~ claim 1,  
wherein R2 and/or R11 represents a moiety of the formula VIII, IX, X, XI, XII or XIII







26. (Original) A compound according to claim 1 selected from the list consisting of

21-N-{2'-[bis(2'-aminoethyl)amino]ethyl}-17R,20S,24,25-tetrahydrofusid-21-amide,

21-N-{2'-[bis(2'-aminoethyl)amino]ethyl}-11-desoxy -17R,20S,24,25-tetrahydrofusid-  
 21-amide,

21-N-{2'-[bis(2'-aminoethyl)amino]ethyl}-16-desacetoxy-17R,20S,24,25-  
 tetrahydrofusid-21-amide,

21-N-{2'-[bis(2'-aminoethyl)amino]ethyl}-13(17)-en-17,20,24,25-tetrahydrofusidan-21-  
 carboxamide,

21-N-{2'-[bis(2'-aminoethyl)amino]ethyl}-3 $\beta$ -desacetoxy-17R,20S,24,25-tetrahydrofusid-21-amide,

21-N-{2'-[bis(2'-aminoethyl)amino]ethyl}-9(11)-en-17R,20S,24,25-tetrahydrofusid-21-amide,

24-N-{2'-[bis(2'-aminoethyl)amino]ethyl}-3 $\alpha$ -hydroxy-5 $\beta$ -cholan-24-amide,

22-N-{2'-[bis(2'-aminoethyl)amino]ethyl}-23,24-bisnor-5-cholenic-22-amide,

21-N-{2'-[bis(2'-aminoethyl)amino]ethyl}-fusid-21-amide,

21-N-{3'-[bis(3'-aminopropyl)amino]propyl}-fusid-21-amide,

21-N-{2'-[bis(2'-aminoethyl)amino]ethyl}-3-OSO<sub>3</sub>-11-desoxy-17,20,24,25-tetrahydrofusid-21-amide,

21-N-{2'-[bis(2'-aminoethyl)amino]ethyl}-11-desoxy-16-desacetoxy-17S,20,24,25-tetrahydrofusid-21-amide,

21-N-{3'-[bis(3'-aminopropyl)amino]propyl}-17R,20S,24,25-tetrahydrofusid-21-amide,

22-N-{3'-[bis(3'-aminopropyl)amino]propyl}-23,24-bisnor-5-cholenic-22-amide,

21-N-{3'-[bis(3'-aminopropyl)amino]propyl}-3-OAc-17R,20S,24,25-tetrahydrofusid-21-amide,

21-N-{3'-[bis(3'-aminopropyl)amino]propyl}-3-OSO<sub>3</sub>-11-desoxy-17,20,24,25-tetrahydrofusid-21-amide,

21-N-{3'-[bis(3'-aminopropyl)amino]propyl}-11-desoxy-16-desacetoxy-17S,20,24,25-tetrahydrofusid-21-amide,

3-N-{2'-[bis(2'-aminoethyl)amino]ethyl}-fusidic acid,

21-N-{3'-[(3'-aminopropyl)(methyl)amino]propyl}-17R,20S,24,25-tetrahydrofusid-21-amide,

21-N-{3'-[(3'-aminopropyl)(methyl)amino]propyl}-11-desoxy-17R,20S,24,25-tetrahydrofusid-21-amide,

21-N-{3'-[(3'-aminopropyl)(methyl)amino]propyl}-16-desacetoxy-17R,20S,24,25-tetrahydrofusid-21-amide,

24-N-{3'-[(3'-aminopropyl)(methyl)amino]propyl}-3 $\alpha$ -hydroxy-5 $\beta$ -cholan-24-amide,

21-N-{3'-[(3'-aminopropyl)(methyl)amino]propyl}-11desoxy-16-desacetoxy-17R,20S,24,25-tetrahydrofusid-21-amide,

3-N-{3'-[bis(3'-aminopropyl)amino]propyl}-}-fusidic acid,

3-N-{3'-[(3'-aminopropyl)(methyl)amino]propyl}-fusidic acid.

27. (Previously Presented) A pharmaceutical composition comprising a compound according to claim 1, optionally together with a pharmaceutically acceptable excipient or vehicle, and optionally other therapeutically active agents.

28. - 32. (Cancelled)

33. (Currently Amended) A method of preventing or treating a bacterial infection, the method comprising administering to a patient in need thereof an effective amount of a compound according to claim 1.

Application No. 10/509,911  
Amendment dated January 31, 2008  
Second Preliminary Amendment

Docket No.: 3893-0200PUS2

34. - 36. (Cancelled)